

#9

re-run



1600

RAW SEQUENCE LISTING

DATE: 05/08/2003

PATENT APPLICATION: US/09/769,952

TIME: 10:08:03

Input Set : A:\US09769952.raw

Output Set: N:\CRF4\05082003\I769952.raw

1 <110> APPLICANT: LEXICON GENETICS INCORPORATED
 2 <120> TITLE OF INVENTION: Novel Human Enzymes and Polynucleotides
 3 Encoding the Same
 4 <130> FILE REFERENCE: LEX-0118-PCT
 5 <140> CURRENT APPLICATION NUMBER: US/09/769,952
 6 <141> CURRENT FILING DATE: 2001-01-25
 7 <150> PRIOR APPLICATION NUMBER: US 60/179,000
 8 <151> PRIOR FILING DATE: 2000-01-28
 9 <160> NUMBER OF SEQ ID NOS: 15
 10 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 12 <210> SEQ ID NO: 1
 13 <211> LENGTH: 831
 14 <212> TYPE: DNA
 15 <213> ORGANISM: Homo sapiens
 16 <400> SEQUENCE: 1

17	atgacctctt tccgcttggc cctcatccag cttcagattt cttccatcaa atcagataac	60
18	gtcactcgcg cttgtagctt catccgggag gcagcaacgc aaggagccaa aatagtttct	120
19	ttgccggaat gctttaattc tccatatgga gcgaaatatt ttcctgaata tgcagagaaa	180
20	attcctgggtg aatccacaca gaagctttct gaagtagcaa aggaatgcag catatatctc	240
21	attggaggct ctatccctga agaggatgct gggaaattat ataacacctg tgctgtgttt	300
22	gggcctgatg gaactttact agcaaagtat agaaagatcc atctgtttga cattgatgtt	360
23	cctggaaaaa ttacatttca agaattctaaa acattgagtc cgggtgatag tttctccaca	420
24	tttgatactc cttactgcag agtgggtctg ggcattctgct acgacatgcg gtttgcagag	480
25	cttgacacaaa tctacgcaca gagaggctgc cagctgttgg tatatccagg agcttttaat	540
26	ctgaccactg gaccagccca ttggggagtta cttcagcgaa gccgggctgt tgataatcag	600
27	gtgtatgtgg ccacagcctc tccctgcccg gatgacaaag cctcctatgt tgcctgggga	660
28	cacagcaccg tgggtgaaccc ttggggggag gttctagcca aagctggcac agaagaagca	720
29	atcgtgtatt cagacataga cctgaagaag ctggctgaaa tacgccagca aatccccgtt	780
30	tttagacaga agcgatcaga cctctatgct gtggagatga aaaagcccta a	831

32 <210> SEQ ID NO: 2
 33 <211> LENGTH: 276
 34 <212> TYPE: PRT
 35 <213> ORGANISM: Homo sapiens
 36 <400> SEQUENCE: 2

37	Met Thr Ser Phe Arg Leu Ala Leu Ile Gln Leu Gln Ile Ser Ser Ile	
38	1 5 10 15	
39	Lys Ser Asp Asn Val Thr Arg Ala Cys Ser Phe Ile Arg Glu Ala Ala	
40	20 25 30	
41	Thr Gln Gly Ala Lys Ile Val Ser Leu Pro Glu Cys Phe Asn Ser Pro	
42	35 40 45	
43	Tyr Gly Ala Lys Tyr Phe Pro Glu Tyr Ala Glu Lys Ile Pro Gly Glu	
44	50 55 60	
45	Ser Thr Gln Lys Leu Ser Glu Val Ala Lys Glu Cys Ser Ile Tyr Leu	

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/769,952

DATE: 05/08/2003

TIME: 10:08:03

Input Set : A:\US09769952.raw

Output Set: N:\CRF4\05082003\I769952.raw

46	65	70	75	80
47	Ile Gly Gly Ser Ile Pro Glu Glu Asp Ala Gly Lys Leu Tyr Asn Thr			
48		85	90	95
49	Cys Ala Val Phe Gly Pro Asp Gly Thr Leu Leu Ala Lys Tyr Arg Lys			
50		100	105	110
51	Ile His Leu Phe Asp Ile Asp Val Pro Gly Lys Ile Thr Phe Gln Glu			
52		115	120	125
53	Ser Lys Thr Leu Ser Pro Gly Asp Ser Phe Ser Thr Phe Asp Thr Pro			
54		130	135	140
55	Tyr Cys Arg Val Gly Leu Gly Ile Cys Tyr Asp Met Arg Phe Ala Glu			
56		145	150	155
57	Leu Ala Gln Ile Tyr Ala Gln Arg Gly Cys Gln Leu Leu Val Tyr Pro			
58		165	170	175
59	Gly Ala Phe Asn Leu Thr Thr Gly Pro Ala His Trp Glu Leu Leu Gln			
60		180	185	190
61	Arg Ser Arg Ala Val Asp Asn Gln Val Tyr Val Ala Thr Ala Ser Pro			
62		195	200	205
63	Ala Arg Asp Asp Lys Ala Ser Tyr Val Ala Trp Gly His Ser Thr Val			
64		210	215	220
65	Val Asn Pro Trp Gly Glu Val Leu Ala Lys Ala Gly Thr Glu Glu Ala			
66		225	230	235
67	Ile Val Tyr Ser Asp Ile Asp Leu Lys Lys Leu Ala Glu Ile Arg Gln			
68		245	250	255
69	Gln Ile Pro Val Phe Arg Gln Lys Arg Ser Asp Leu Tyr Ala Val Glu			
70		260	265	270
71	Met Lys Lys Pro			
72		275		
74	<210> SEQ ID NO: 3			
75	<211> LENGTH: 480			
76	<212> TYPE: DNA			
77	<213> ORGANISM: Homo sapiens			
78	<400> SEQUENCE: 3			
79	atgtcatgga ggatttcccc tgccacacca tgctgtaggg agttaacttt tcatttgtgc			60
80	attttctgtt tggaaacagc ttactgcaga gtgggtcttg gcattctgcta cgacatgcgg			120
81	tttgcagagc ttgcacaaat ctacgcacag agaggctgcc agctgttggt atatccagga			180
82	gcttttaatc tgaccactgg accagcccat tgggagttac ttcagcgaag ccgggctgtt			240
83	gataatcagg tgtatgtggc cacagcctct cctgcccggg atgacaaagc ctcttatgtt			300
84	gcctggggac acagcaccgt ggtgaacct tggggggagg ttctagccaa agctggcaca			360
85	gaagaagcaa tcgtgtattc agacatagac ctgaagaagc tggctgaaat acgccagcaa			420
86	atccccgttt ttacacagaa gcgatcagac ctctatgctg tggagatgaa aaagccctaa			480
88	<210> SEQ ID NO: 4			
89	<211> LENGTH: 159			
90	<212> TYPE: PRT			
91	<213> ORGANISM: Homo sapiens			
92	<400> SEQUENCE: 4			
93	Met Ser Trp Arg Ile Ser Pro Ala Thr Pro Cys Cys Arg Glu Leu Thr			
94	1 5 10 15			
95	Phe His Leu Cys Ile Phe Cys Leu Glu Thr Ala Tyr Cys Arg Val Gly			
96	20 25 30			

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/769,952

DATE: 05/08/2003

TIME: 10:08:03

Input Set : A:\US09769952.raw

Output Set: N:\CRF4\05082003\I769952.raw

```

97   Leu Gly Ile Cys Tyr Asp Met Arg Phe Ala Glu Leu Ala Gln Ile Tyr
98       35                40                45
99   Ala Gln Arg Gly Cys Gln Leu Leu Val Tyr Pro Gly Ala Phe Asn Leu
100      50                55                60
101   Thr Thr Gly Pro Ala His Trp Glu Leu Leu Gln Arg Ser Arg Ala Val
102      65                70                75                80
103   Asp Asn Gln Val Tyr Val Ala Thr Ala Ser Pro Ala Arg Asp Asp Lys
104              85                90                95
105   Ala Ser Tyr Val Ala Trp Gly His Ser Thr Val Val Asn Pro Trp Gly
106              100               105               110
107   Glu Val Leu Ala Lys Ala Gly Thr Glu Glu Ala Ile Val Tyr Ser Asp
108              115               120               125
109   Ile Asp Leu Lys Lys Leu Ala Glu Ile Arg Gln Gln Ile Pro Val Phe
110              130               135               140
111   Arg Gln Lys Arg Ser Asp Leu Tyr Ala Val Glu Met Lys Lys Pro
112      145               150               155
114 <210> SEQ ID NO: 5
115 <211> LENGTH: 366
116 <212> TYPE: DNA
117 <213> ORGANISM: Homo sapiens
118 <400> SEQUENCE: 5
119   atgcggtttg cagagcttgc acaaactctac gcacagagag gctgccagct gttggtatat      60
120   ccaggagctt ttaatctgac cactggacca gccattggg agttacttca gcgaagccgg      120
121   gctgttgata atcaggtgta tgtggccaca gcctctcctg cccgggatga caaagcctcc      180
122   tatgttgctt ggggacacag caccgtggtg aacccttggg gggagggttct agccaaagct      240
123   ggcacagaag aagcaatcgt gtattcagac atagacctga agaagctggc tgaaatacgc      300
124   cagcaaatcc ccgttttttag acagaagcga tcagacctct atgctgtgga gatgaaaaag      360
125   ccctaa                                           366
127 <210> SEQ ID NO: 6
128 <211> LENGTH: 121
129 <212> TYPE: PRT
130 <213> ORGANISM: Homo sapiens
131 <400> SEQUENCE: 6
132   Met Arg Phe Ala Glu Leu Ala Gln Ile Tyr Ala Gln Arg Gly Cys Gln
133       1                5                10                15
134   Leu Leu Val Tyr Pro Gly Ala Phe Asn Leu Thr Thr Gly Pro Ala His
135      20                25                30
136   Trp Glu Leu Leu Gln Arg Ser Arg Ala Val Asp Asn Gln Val Tyr Val
137      35                40                45
138   Ala Thr Ala Ser Pro Ala Arg Asp Asp Lys Ala Ser Tyr Val Ala Trp
139      50                55                60
140   Gly His Ser Thr Val Val Asn Pro Trp Gly Glu Val Leu Ala Lys Ala
141      65                70                75                80
142   Gly Thr Glu Glu Ala Ile Val Tyr Ser Asp Ile Asp Leu Lys Lys Leu
143              85                90                95
144   Ala Glu Ile Arg Gln Gln Ile Pro Val Phe Arg Gln Lys Arg Ser Asp
145              100               105               110
146   Leu Tyr Ala Val Glu Met Lys Lys Pro
147      115               120

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/769,952

DATE: 05/08/2003

TIME: 10:08:03

Input Set : A:\US09769952.raw

Output Set: N:\CRF4\05082003\I769952.raw

```

149 <210> SEQ ID NO: 7
150 <211> LENGTH: 507
151 <212> TYPE: DNA
152 <213> ORGANISM: Homo sapiens
153 <400> SEQUENCE: 7
154      atgtcatgga ggatttcccc tgccacacca tgcgtgtaggg agttaacttt tcatttgtgc      60
155      attttctgtt tggaacagc ttactgcaga gtgggtctgg gcatctgcta cgacatgcgg      120
156      ttgcagagc ttgcacaaat ctacgcacag agaggctgcc agctgttggt atatccagga      180
157      gcttttaatc tgaccactgg accagcccat tgggagttac ttcagcgaag ccgggctggt      240
158      gataatcagg tgtatgtggc cacagcctct cctgcccggg atgacaaagc ctctatgtt      300
159      gcctggggac acagcacctg ggtgaaccct tggggggagg ttctagccaa agctggcaca      360
160      gaagaagcaa tcgtgtattc agacatagac ctgaagaagc tggctgaaat acgccagcaa      420
161      atccccgttt ttagacagaa gcgaaatatt ttctgaata tgcagagaaa attcctgggtg      480
162      aatccacaca gaagctttct gaagtag      507
164 <210> SEQ ID NO: 8
165 <211> LENGTH: 168
166 <212> TYPE: PRT
167 <213> ORGANISM: Homo sapiens
168 <400> SEQUENCE: 8
169      Met Ser Trp Arg Ile Ser Pro Ala Thr Pro Cys Cys Arg Glu Leu Thr
170      1          5          10          15
171      Phe His Leu Cys Ile Phe Cys Leu Glu Thr Ala Tyr Cys Arg Val Gly
172      20          25          30
173      Leu Gly Ile Cys Tyr Asp Met Arg Phe Ala Glu Leu Ala Gln Ile Tyr
174      35          40          45
175      Ala Gln Arg Gly Cys Gln Leu Leu Val Tyr Pro Gly Ala Phe Asn Leu
176      50          55          60
177      Thr Thr Gly Pro Ala His Trp Glu Leu Leu Gln Arg Ser Arg Ala Val
178      65          70          75          80
179      Asp Asn Gln Val Tyr Val Ala Thr Ala Ser Pro Ala Arg Asp Asp Lys
180      85          90          95
181      Ala Ser Tyr Val Ala Trp Gly His Ser Thr Val Val Asn Pro Trp Gly
182      100         105         110
183      Glu Val Leu Ala Lys Ala Gly Thr Glu Glu Ala Ile Val Tyr Ser Asp
184      115         120         125
185      Ile Asp Leu Lys Lys Leu Ala Glu Ile Arg Gln Gln Ile Pro Val Phe
186      130         135         140
187      Arg Gln Lys Arg Asn Ile Phe Leu Asn Met Gln Arg Lys Phe Leu Val
188      145         150         155         160
189      Asn Pro His Arg Ser Phe Leu Lys
190      165
192 <210> SEQ ID NO: 9
193 <211> LENGTH: 393
194 <212> TYPE: DNA
195 <213> ORGANISM: Homo sapiens
196 <400> SEQUENCE: 9
197      atgcggtttg cagagcttgc acaaactctac gcacagagag gctgccagct gttggtatat      60
198      ccaggagctt ttaatctgac cactggacca gcccattggg agttacttca gcgaagccgg      120
199      gctgttgata atcaggtgta tgtggccaca gcctctcctg cccgggatga caaagcctcc      180

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/769,952

DATE: 05/08/2003

TIME: 10:08:03

Input Set : A:\US09769952.raw

Output Set: N:\CRF4\05082003\I769952.raw

```

200      tatgttgctt ggggacacag caccgtggtg aacccttggg gggagggttct agccaaagct      240
201      ggcacagaag aagcaatcgt gtattcagac atagacctga agaagctggc tgaaatacgc      300
202      cagcaaatcc ccgttttttag acagaagcga aatattttcc tgaatatgca gagaaaattc      360
203      ctggtgaatc cacacagaag ctttctgaag tag      393
205 <210> SEQ ID NO: 10
206 <211> LENGTH: 130
207 <212> TYPE: PRT
208 <213> ORGANISM: Homo sapiens
209 <400> SEQUENCE: 10
210      Met Arg Phe Ala Glu Leu Ala Gln Ile Tyr Ala Gln Arg Gly Cys Gln
211      1              5              10              15
212      Leu Leu Val Tyr Pro Gly Ala Phe Asn Leu Thr Thr Gly Pro Ala His
213      20              25              30
214      Trp Glu Leu Leu Gln Arg Ser Arg Ala Val Asp Asn Gln Val Tyr Val
215      35              40              45
216      Ala Thr Ala Ser Pro Ala Arg Asp Asp Lys Ala Ser Tyr Val Ala Trp
217      50              55              60
218      Gly His Ser Thr Val Val Asn Pro Trp Gly Glu Val Leu Ala Lys Ala
219      65              70              75              80
220      Gly Thr Glu Glu Ala Ile Val Tyr Ser Asp Ile Asp Leu Lys Lys Leu
221      85              90              95
222      Ala Glu Ile Arg Gln Gln Ile Pro Val Phe Arg Gln Lys Arg Asn Ile
223      100             105             110
224      Phe Leu Asn Met Gln Arg Lys Phe Leu Val Asn Pro His Arg Ser Phe
225      115             120             125
226      Leu Lys
227      130
229 <210> SEQ ID NO: 11
230 <211> LENGTH: 459
231 <212> TYPE: DNA
232 <213> ORGANISM: Homo sapiens
233 <400> SEQUENCE: 11
234      atgacctctt tccgcttggc cctcatccag cttcagattt cttccatcaa atcagataac      60
235      gtcactcgcg cttgtagctt catccgggag gcagcaacgc aaggagccaa aatagtttct      120
236      ttgccggaat gctttaattc tccatatgga gcgaaatatt ttcctgaata tgcagagaaa      180
237      attcctggtg aatccacaca gaagctttct gaagtagcaa aggaatgcag catatatctc      240
238      attggaggct ctatccctga agaggatgct gggaaattat ataacacctg tgctgtgttt      300
239      gggcctgatg gaactttact agcaaagtat agaaagatcc atctgtttga cattgatgtt      360
240      cctggaaaaa ttacatttca agaattctaaa acattgagtc cgggtgatag tttctccaca      420
241      tttgatactc gtatgtacca gataagtttg cctcttttag      459
243 <210> SEQ ID NO: 12
244 <211> LENGTH: 152
245 <212> TYPE: PRT
246 <213> ORGANISM: Homo sapiens
247 <400> SEQUENCE: 12
248      Met Thr Ser Phe Arg Leu Ala Leu Ile Gln Leu Gln Ile Ser Ser Ile
249      1              5              10              15
250      Lys Ser Asp Asn Val Thr Arg Ala Cys Ser Phe Ile Arg Glu Ala Ala
251      20              25              30

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/769,952

DATE: 05/08/2003

TIME: 10:08:04

Input Set : A:\US09769952.raw

Output Set: N:\CRF4\05082003\I769952.raw